

XXII Conference of KPSS (Communist Party USSR)
and Certain Important Physiological Problems,
by I. A. Baryshnikov and D. A. Biryukov, et al,
KINSHAI, per, Fiziologicheskiy Zhurnal SSSR,
VOL XLVIII, No 1, 1962, pp 1-8. T100144760
PT-11-6-3

Sci-Behavioral & Social Sci

316,227

Feb 67

CHANGE IN THE DYNAMICS OF THE FORMATION OF ELECTRIC
REACTIONS OF THE VISUAL ANALYSOR IN THE PRESENCE OF
HYPOXIA, BY MEI LEI, LL PP.

RUSSIAN, PER, FIZ ZHUR SSSR IMENI I. M. SECHENOVA,
VOL XLVIII, NO 1, 1962, PP 11-15. 9665961

FTD-TT-62-769
OTS, CIA 11 ETC TT-63-28910 (9/1)
.. TT-62-32312

SCI - MED
AUG 62

203,840

Bioelectric Activity of Single hypothalamic
Neurons at Brief Displacements of Osmotic
Pressure in the Basin of Internal Carotid
and Portal Vein of the Liver, by V. F. Tol-
kunov,

RUSSIAN, per, Fizicheskiy Zhurnal SSSR,
Vol XLVIII, No 1, 1962, pp 39-46. P100144766
ITD-TP-64-3

Sci-Phys
Feb 67

518,228

INVESTIGATION OF TONIC REFLEXES ON STIMULATION
OF DIFFERENT HUMAN SENSE ORGANS, BY G. M.
MARGOLIN, 6 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI
I. M. SECHONOVA, VOL XLVIII, NO 1, 1962,
PP 95-97. 9665945

FTD-TT-62-558

SCI - MED
AUG 62

207,962

(NY-6503)

AUTOMATIC SAMPLING OF FRACTIONS OF ALVEOLAR
AIR AT A GIVEN DEPTH OF EXPIRATION, BY
M. S. SHNEYDER, N. S. DIDENKO, 7 PP.

RUSSIAN, PER, FIZIOLOGICHESKIY ZHURNAL SSSR,
VOL XLVIII, NO 1, 1962, PP 99--103.

JPRS 14302

SCI - PHYS

JUL 62

202,028

(NY-6503)

SCIENTIFIC CONGRESSES AND CONFERENCES. REPORTS
ON PROBLEMS OF THE PHYSIOLOGY OF ANALYZERS, BY
V. D. GLEZER, YE. A. RADIONOVA, 6 PP.

RUSSIAN, PRE, FIZIOLOGICHESKIY ZHURNAL SSSR,
VOL XLVII, NO 1, 1962, PP 103-111.

JPRS 14302

SCI -- MED

JUL 62

202,029

X38
(NY-6503)

THE TASKS OF PHYSIOLOGICAL CHEMISTRY IN THE
LIGHT OF THE NEW PROGRAM OF THE COMMUNIST
PARTY USSR, BY N. N. YAKOVLEV, 6 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI
I. M. SECHENOVA, VOL XLVIII, NO 2, 1962,
PP 121-125.

JPRS 14059

SCI - CHEM, PHYS
JUN 62

199,140

Kovalenko, E. A.
THE EFFECT OF HIGHLY RAREFIED ATMOSPHERE
ON OXYGEN TENSION IN BRAIN TISSUE. [1962] [25]p.
18 refs. FASEB manuscript no. S 2-2.
Order from OTS or SLA \$2.60

63-15428

Trans. of Fiziologicheskii Zhurnal SSSR, 1962, v. 48,
no. 2, p. 150-158.
Another trans. is available from OTS or SLA \$1.60 as
62-20306 [1962] [16]p.

DESCRIPTORS: *Oxygen, *Brain, *High altitude,
Atmosphere, Anoxia.

Seventeen to twenty-five seconds after dogs are exposed
to an altitude of 15,000 m, muscles relax, position
reflexes are lost, and collapse ensues; after 55 to 105
sec complete respiratory standstill sets in, indicating
the outermost limit of time that the animals can remain
(Biological Sciences--Physiology, TT, v. 9, no. 9) (over)

63-15428

- I. Kovalenko, E. A.
- II. FASEB S-2-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Optimum Conditions for Recording
Electroplethysmograms of Parts and Organs of the
Human Body, by Yu. Ye. Moakalenko, 8 pp.
RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenova,
Vol. XLVIII, No 2, 1962, pp 214-218. 9221167
~~Master NASA TT P-203~~

Sci - Biol & Med Sci
Jun 64

259,822

CHANGE IN THE BIOELECTRICAL ACTIVITY OF VARIOUS
BRAIN REGIONS OF CATS AND DOGS ON EXPOSURE TO
CARBON DIOXIDE, BY YU. N. IVANOV, 20 PP.

RUSSIAN, PER, FIZIOLOG ZHUR SSSR IMENI
I. M. SECHENOVA, VOL XLVIII, NO 3, 1962,
PP 279-289. 9665780

FTD-TT-62-773

SCI - MED
JUL 62

204,474

Reflex Changes in the Vessels of the Mucosa
of the Small Intestine and Activity of the Villi
in the Absorption Process, by N. Bannikova.
RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol 48,
No 3, 1962, pp 324-330.

HEW NIH
4-26-68

Sci/B & M
June 68

358,330

SCIENTIFIC CONGRESS ALL-UNION CONFERENCE ON THE
PHYSIOLOGY AND PATHOLOGY OF RESPIRATION, BY
M. V. SERGIIEVSKIY, 9 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI I. M.
SECHENOVА, VOL XLVIII, NO 3, 1962, PP 368-370.

9666268

FTD-TT-62-995

SCI - MED
SEP 62

210,147

Yurasov, V. F.
CEREBRAL AND VISCERAL TEMPERATURE REACTIONS TO COOLING OF DIFFERENT PARTS OF THE CENTRAL NERVOUS SYSTEM. [1962] [28]p. 34 refs. FASEB manuscript no. S 9-2.

Order from OTS or SLA \$2.60 63-15427

Trans. of Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 4, p. 413-421.

DESCRIPTORS: *Hypothermia, Adaptation (Physiology), *Brain, Spinal cord, Cerebral cortex, *Body temperature, Nervous system.

Regardless of the place where the CNS is cooled, and other things being equal, the temperature drop is most pronounced and rapid on the upper level of the brain (cortex), less so in the middle level and least of all in the lower level. The temperature reactions of the viscera vary with the region cooled, and the reactions (Biological Sciences--Physiology, TT, v. 9, no. 10) over

63-15427

- I. Title: Viscera
- II. Yurasov, V. F.
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

RESPIRATION AT HIGHER PRESSURES AND OXYGEN TENSION
IN BRAIN TISSUES, BY YE. A. KOVALENKO,
F. V. BABCHINSKIY, 10 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR IMENI I. M. SECHENOVA,
VOL XLVIII, NO 4, 1962, PP 449-454. 9678225

FTD-TT-62-962

NIH TR-53-43

SCI - MED
11 OCT 62

212,330

8XM

SYMPOSIUM ON PROBLEMS OF FATIGUE AND RECOVERY OF
FITNESS, BY N. V. ZIMKIN, 8 PP.

RUSSIAN, PER, FIZIOL ZHUR SSSR, IMENI I. M. SECHNENOVA,
VOL XLVIII, NO 4, 1962, PP 499-501. 9678225

FTD-TT-62-962

SCI - MED
11 OCT 62

364.17
5 VP 16 12 212,331

Shilling, N. V.
BIOELECTRICAL ACTIVITY IN DIFFERENT PARTS
OF THE RABBIT'S NERVOUS SYSTEM IN RESPONSE
TO STIMULATION OF THE VISUAL ANALYSOR.
[1962] [14]p. 15 .lfb. FASEB manuscript no. S 359-2.
Order from OTS or SLA \$1.60 63-19019

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48,
no. 5, p. 587-592.

DESCRIPTORS: *Bioelectronics, *Nervous system,
Rabbits, Stimulation, Reaction (Psychology),
Brain, Visual perception, *Analyzer (Psychology),
*Vision, Autonomic nervous system

Recordings of the electric activity in the occipital cortex, the hypothalamic region, the cerebellum and the upper cervical sympathetic ganglion under the influence of a flicker stimulus have shown that all the parts of the nervous system are involved in the response reaction. (over)
Biological Sciences--Physiology, IT, v. 9, no. 10

63-19019

- I. Shilling, N. V.
- II. FASEB S-359-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

Sergievskii, M. V. and Ivanov, Yu. N.
ON THE PROBLEM OF SLEEP (EXPERIMENTS ON
ANIMALS DEPRIVED OF THE THREE PAIRS OF
DISTANCE RECEPTORS/I.E., VISION, HEARING
AND SMELL/). [1963] [32]p. 22 refs. FASEB manu-
script no. S-86-3.
Order from OTS or SLA \$3.60 63-19356

Trans. of *Fiziologicheski Zhurnal SSSR*, 1962,
v. 48, no. 6, p. 646-653.

DESCRIPTORS: "Sleep, Laboratory animals, Sensory
mechanisms, "Vision, "Hearing, "Smell, Sensitivity,
Reflexes, Respiratory system, Cardiovascular sys-
tem, "Brain, Morphology, Stimulation, Skin,
Bioelectronics, Surgery, Caffeine, Cerebral cortex.

(Biological Sciences--Physiology, TI, v. 10, no. 5)

63-19356

- I. Sergievskii, M. V.
- II. Ivanov, Yu. N.
- III. Title: Experiments...
- IV. FASEB S-86-3
- V. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- VI. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Taranenko, A. G.	THE EFFECT OF THYROID GLAND ON THE CASEIN CONTENT OF THE MILK AND ON ITS AMINO ACID COMPOSITION. [1962] (13)p. 14 refs. FASEB manuscript no. S 243-2. Order from OTS or SLA \$1.60	63-19011	63-19011
Trans. of <i>Radiobiologicheskii Zhurnal SSSR</i> , 1962, v. 48, no. 6, p. 732-747.			
DESCRIPTORS: *Thyroid gland, *Casein, *Milk, *Amino acids, Fats, *Mammary glands, Iodine, *Diet.		I. Taranenko, A. G. II. FASEB S-243-2 III. Federation of American Societies for Experimental Biology, Washington, D. C. IV. Scripta Technica, Inc., Washington, D. C.	

Experiments were performed on 5 lactating goats to determine the effect of thyroid hormone thyroxin and of efferent innervation of the mammary gland on the content of fat and casein in milk and on the amino-acid composition of casein. The goats were fed iodinated casein which resulted in an increased fat content and a (Biological Sciences--Physiology, TT, v. 10, no. 6) (over)

Office of Technical Services

63-19012

Afar, Ya. M. and Rogozkin, V. A.
THE EFFECT OF CASEIN HYDROLYZATE ON
CARBOHYDRATE-PHOSPHORUS METABOLISM
DURING PROLONGED PHYSICAL EFFORT. [1962]
[15pp. 9 refs. FASEB manuscript no. S 245-2.
Order from OTS or SLA \$1.60]

63-19012

Trans. of Pisziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 6, p. 754-759.

DESCRIPTORS: *Casein, Carbohydrates, Phosphates,
Adenosine phosphates, Phosphorus, *Metabolism,
Exercise, *Muscles, Lactic acid, Glucose.

A commercial casein was hydrolyzed with 6N HCl
for 12 hours. The resulting hydrolysate contained
13.4% nitrogen or 85% of the nitrogen in casein,
0.29% phosphorus and all 18 amino acids in casein.
Athletic rats were made to swim in water at 30 to 32° for 5
(Biological Sciences--Biochemistry, TT, v. 10, no. 7)
(over)

- I. Afar, Ya. M.
- II. Rogozkin, V. A.
- III. FASEB S-245-2
- IV. Federation of American
Societies for
Experimental Biology,
Washington, D. C.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Klimova-Cherkasova, V. I.
CHANGES IN AUTONOMIC TONE AFTER STIMULATION AND INJURY OF VARIOUS BRAIN STEM SITES.
[1962] [17] p. 20 refs. FASEB manuscript no. S 267-2.
Order from OTS by SLA \$1.60 63-19020

Trans. of *Fiziologicheskii Zhurnal SSSR*, 1962, v. 48,
no. 7, p. 813-822.

DESCRIPTORS: *Autonomic nervous system, *Brain,
*Hypothalamus, *Thalamus, Stimulation, Injuries,
Heart, *Epinephrine, *Chlorpromazine.

Various regions of the brain were stimulated or injured
to study the extent to which various levels of the reticular
formation participate in the regulation of vagal
tone in unanesthetized animals with species differences
in the parasympathetic effects on the heart. Stimula-
(Biological Sciences--Physiology, TT, v. 10, no. 6)
(over)

63-19020

- I. Klimova-Cherkasova,
V. I.
- II. FASEB S-267-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

TT-63-17973-5
(p. T982-T986)

Panardzhyan, V. V.
INTERACTION OF AFFERENT SYSTEMS OF THE
CEREBELLUM. 1963, 5p
Order from FASEB In Federation Proceedings, 1953,
v. 22, no. 5, pr. 2, \$2.00

Trans. of "Fiziologicheskii Zhurnal SSSR," 1962, v. 49,
no. 7, p. 823ff. (Abstract available)

DESCRIPTORS: *Bioelectronics, *Cerebellum, *Neuro-
muscular transmission, Nerves, *Motor reactions,
Brain, Stimulation

The experiments have shown that the cutaneous and
muscle afferent systems to a varying extent (according
to the width of the projection field) are represented in
the cerebellar cortex of Nembutalized and decerebrate
cats. Moreover, a difference was detected in the inter-
action of the afferent impulses. In animals under deep
(Biological Sciences, TT, v. 11, no. 1) (over)

I. Panardzhyan, V. V.
II. Federation of American
Societies for Experimental
Biology,
Washington, D. C.

Editorial Technical Services

		63-19013
Marits, A. M.	I. Marits, A. M.	
THE EFFECT OF HUNGER AND SATIATION ON THE ELECTRICAL ACTIVITY OF THE RETICULAR FOR- MATION AND CEREBRAL CORTEX. [1962] [10p].	II. FASEB 5-247-2	
14 refs. FASEB manuscript no. S 247-2. Order from OTS or SLA \$1.10	III. Federation of American Societies for Experimental Biology, Washington, D. C.	
Trans. of <u>Fiziologicheskii Zhurnal SSSR</u> , 1962, v. 45, no. 8, p. 889-892.	IV. Script Technica, Inc., Washington, D. C.	
DESCRIPTORS: *Appetite, *Starvation, *Bioelectrodes, *Brain, *Cerebral cortex, Conditioned reflex, Adapta- tion (Physiology)		
The electrical activity of the reticular formation and cerebral cortex of starving animals differs appreciably from the activity taking place after satiation. The elec- trical activity of the reticular formation and cortex dur- ing relative starvation (for 24 hours) is inconstant. De- pending on the state of the brain function, a sound (Biological Sciences--Physiology, TT, v. 9, no. 10) (over)	Office of Technical Services	

Vedyayev, F. P.
THE ROLE OF FUNCTIONAL-STATE PARAMETERS
IN THE PRODUCTION OF REACTIONS OF SUB-
CORTICAL ORIGIN. [1962] [20]p. 22 refs. FASEB
manuscript no. S 264-2.
Order from OTS or SLA \$1.60

63-19017

Trans. of #Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 8, p. 942-952.

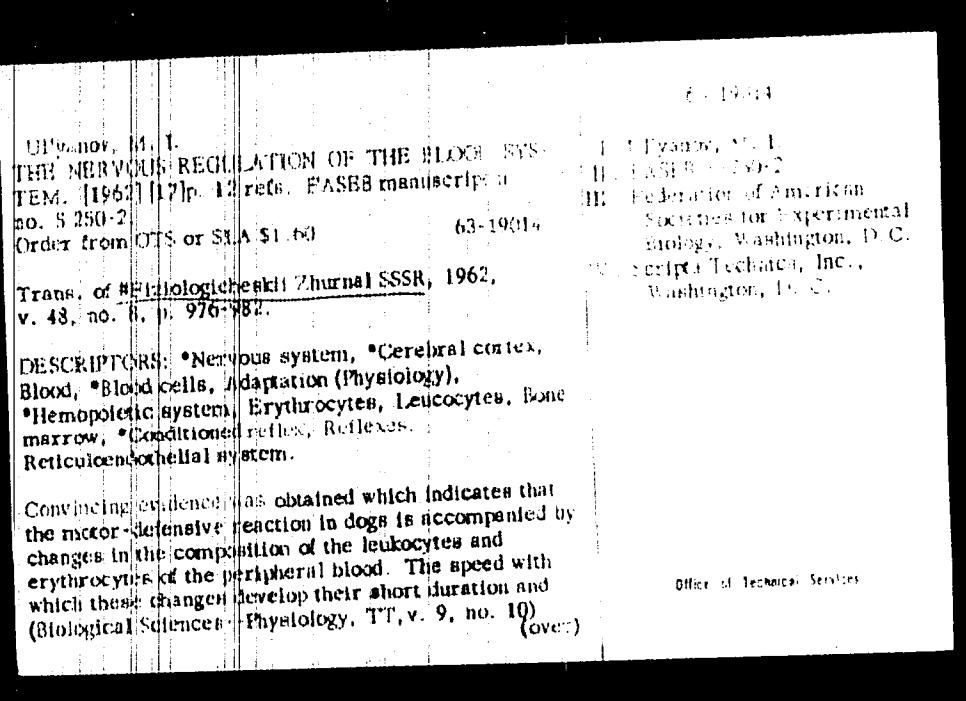
DESCRIPTORS: Reaction (Psychology), *Cerebral cortex, *Brain, *Nervous systems, Nerves, Autonomic nervous system, *Reflexes, Stimulation, Electrodes, Test methods, *Neuromuscular transmission, Adaptation (Physiology), *Motor reactions.

When various subcortical structures are stimulated, three types of reactions are seen: conducting-fiber reactions, highly complex unconditioned reactions, and (Biological Sciences-Physiology, TT, v. 9, no. 12)
(over)

63-19017

- I. Vedyayev, F. P.
- II. FASEB S-264-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services



A Method for Investigating the Physiology of Absorption and Movement in the Small Intestine of Birds, by V. V. Li and A. Ch. Li, 9 p.
RUSSIAN, per, Fiziologicheskiy Zhurnal SSSR,
Vol XLVIII, No 8, 1962, pp 997-999.

NLL RTS-5153

Sci-B&M Jun 66 303,650
JN

Batuev, A. S.
THE EFFECT OF CHLORPROMAZINE ON THE
REFLECTION OF LIGHT AND SOUND STIMULI IN
THE EEG OF THE FRONTAL CORTEX IN THE
RABBIT. [1963] [14]. 29 refs. FASEB manuscript
no. S 273-2.
Order from CTS or SLA \$1.60

63-19391

Trans. of *Fiziologicheski Zhurnal SSSR*, 1962,
v. 48, no. 9, p. 1010-1016.

DESCRIPTORS: *Chlorpromazine, Reflection, *Light,
*Sound, Electroencephalography, *Cerebral cortex,
Rabbits, Brain, Stimulation.

Injection of chlorpromazine into a rabbit in a dose of
3-5 mg/kg tends to suppression of the changes in the
EEG of the frontal region of the cortex in response to
a sound stimulus, while preserving those in response
(Biological Sciences-Pharmacology, TT, v. 10, no. 5)
(over)

63-19391

- I. Batuev, A. S.
- II. FASEB S-273-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Sheveleva, V. S. EVOLUTION OF THE FUNCTION OF SYMPATHETIC GANGLIA IN ONTOGENESIS. [1963] [24]p. 26 refs. FASEB manuscript no. S 277-2. Order from UTS or \$1.20		63-19392
Transl. of Biologicheskii Zhurnal SSSR, 1963, v. 48, no. 9, p. 1031-1069.		
DESCRIPTORS: *Evolution, *Autonomic nervous system, *Ganglia, Rabbits, Growth, Bioelectronics, brain, Spinal cord, Cells (Biology), Biochemistry, Acetylcholines.		
An investigation was conducted on the character of the "spontaneous" and reflex electrical activity of the sympathetic ganglia during ontogenesis, with emphasis on the details of the interneuronal trans- mission of excitation in their synapses. The changes (Biological Sciences--Physiology, TT, v. 10, no. 5) (over)		
63-19392		
I. Title: Ontogenesis I. Sheveleva, V. S. II. FASEB S-277-2 III. Federation of American Societies for Experimental Biology, Washington, D. C. IV. Scripta Technica, Inc., Washington, D. C.		
Office of Technical Services		

Fudel'-Osipova, S. I. AGE CHANGES IN THE EXCITABILITY AND FUNCTIONAL MOBILITY OF THE NEUROMUSCULAR APPARATUS OF WARM-BLOODED ANIMALS. [1963] [14]p. 18 refs. FASEB manuscript no. S 280-2. Order from OTS or SLA \$1.60 Trans. of <i>Biologicheski Zhurnal SSSR</i> , 1962, v. 48, no. 9, p. 1099-1104.	63-19393 I. Fudel'-Osipova, S. I. II. FASEB S-280-2 III. Federation of American Societies for Experimental Biology, Washington, D.C. IV. Scripta Technica, Inc., Washington, D. C.
(Biological Sciences--Physiology, TT, v. 10, no. 5)	Office of Technical Services

Yakovlev, N. N., Kaledin, S. V. and others. A PHYSIOLOGICAL AND CHEMICAL ANALYSIS OF ADAPTATION TO SHORT PERIODS OF INTENSIVE MUSCULAR ACTIVITY IN ADOLESCENTS. [1963] [17]p. 22 refs. FASEB manuscript no. S 281-2. Order from OTS or SLA \$1.60	63-19394 Trans. of #Fiziologicheskii Zhurnal SSSR, 1962, v. 48, no. 9, p. 1105-1112.	63-19394 I. Yakovlev, N. N. II. Kaledin, S. V. III. FASEB S-281-2 IV. Federation of American Societies for Experi- mental Biology, Washington, D. C. V. Scripta Technica, Inc., Washington, D. C.
DESCRIPTORS: Chemical analysis, *Muscles, *Adapta- tion (Physiology), *Exercise, Training, *Glycolysis, Energy.		High-speed exercises, carried out in the absence of a stable state, are responsible not only for greater physiological and chemical changes in the body, but also for the more rapid restitution than is found after the same exercises in a stable state. During intensive (Biological Sciences--Biochemistry, IT, v. 10, no. 5) (over)

Office of Technical Services

Effect of Compensation of Excessive Intrapulmonary Pressure on Oxygen Intensity in Brain Tissues During Ascents to Higher Altitudes,
by Ye. A. Kovalenko, F. V. Babchinskiy, 9 pp.

RUSSIAN, 9 pp., Fiziologicheskiy Zhur SSSR,
Vol. LIV, No 10, 1962, 9567811

PTD-TT-62-1593

Sci.-Med
Mar 63

223 668

On the Mechanism of Increasing the Resistance
of Rats to Deep Hypoxic-Hypercapnic Hypothermia
Under the Influence of Preliminary Training,
11 pp.

RUSSIAN, ver., Fiziologicheskiy Zhur SSSR,
Vol XLVIII, No 10, 1962, №. 9667811

FAD-TT-62-1993

Sci-Med
Mar 63

223 669

Gershuni, G. V. and Zaboeva, N. V.
EVALUATION OF FUNCTIONAL SIGNIFICANCE OF
AUDITORY SYSTEM RESPONSES TO EXPONENTIALL
INCREASING WIDE-BAND NOISES AND
TONES. Mar/Apr 64, 5p 4refs
Order from FASEB \$2.00 in Federation Proceeding
Translation Supplement, 1964, v. 23, no. 2 (p. T275-T279)

Trans. of Fiziologicheskiy Zhurnal SSSR, 1962,
v. 48, no. 10, p. 1178ff.

DESCRIPTORS: *Hearing, Reaction (Psychology),
Broadband Noise, *Sensory mechanisms, Sound,
*Audiometry, *Thresholds (Physiology)

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-12541-2 (p. T275-T279)

- I. Gershuni, G. V.
- II. Zaboeva, N. V.
- III. Federation of American Societies for Experimental Biology, Washington, D. C.

Office of Technical Services

Variations of Blood Sugar and Lactic Acid
Levels in Athletes Performing Standard Tasks
with the Establishment of Good Form,
by N. N. Yakovlev, A. F. Krasnova.
RUSSIAN, per, Fiz Zhur, Vol XLVIII, No 10,
1962, pp 1265-1269.
NLL RIS-2685

Sci - B/M
Jul 66

302,407

Kostyuk, P. G.
FUNCTIONAL PRESYNAPTIC AND POSTSYNAPTIC
CHANGES DURING DEGENERATION OF CENTRAL
SYNAPSES. Nov/Dec 63, 6p 40refs
Order from FASBS \$2.00 in Federation Proceedings:
Translational Supplement, v. 22, no. 6, p. II,
p. T101-T106

Trans. of Biologicheskii Zhurnal SSSR, 1962,
v. 48, no. II, p. 1316ff.

DESCRIPTORS: *Nerve cells, *Atrophy, Brain,
Spinal cord, *Neuromuscular transmission,
Bioelectronics, *Motor reactions, Regeneration,
Nervous system.

(Biological Sciences--Physiology, TT, v. II, no. 10)

TT-63-17973-6
(p. T101-T106)

I. Kostyuk, P. G.
II. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.

Office of Technical Services

Kuznik, B. I.

EFFECT OF DISINTEGRATED HUMAN ERYTHROCYTES ON BLOOD COAGULATION. [1963] [30p]
26refs FASEB Manuscript no. S 6-3.

Order from OTS, SLA, or ETC \$2.60 TT-63-23847

Trans. of Fiziologicheskii Zhurnal SSSR, 1962,
v. 48, no. 11, p. 1382-1391. (Abstract available)

DESCRIPTORS: *Erythrocytes, *Blood coagulation,
Prothrombin, Fibrinogen,

Disintegrated erythrocytes markedly increase the
degree of thrombosis and accelerate coagulation
time and recalcification time. This influence does not
arise from the activating effect of hemolysates on the
blood platelets because it is also manifested in plasma
with a low thrombocyte content. Erythrocytes contain
thromboplastic, antithromboplastic, antiheparin, and
(Biological Sciences- Physiology, TT, v. 11, no. 5)
(over)

TT-63-23847

- I. Kuznik, B. I.
- II. FASEB S-6-3
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Korostovtseva, N. V.

THE ACCLIMATIZATION PROGRAM AND SOME INDICES OF ACCLIMATIZATION OF RATS TO DEEP ANOXIC-HYPERCAPNIC HYPOThERMIA. [1963] [11 p. 2 refs. FASEB manuscript no. S 29-3. Order from OTS or SLA \$1.60]

63-23057

Trans. of Fiziologicheskiy Zhurnal SSSR, 1962, v. 48, no. 12, p. 1466-1471.

DESCRIPTORS: "Acclimatization, Adaptation (Physiology), Rats, "Hypoxia, "Hypothermia, Ecology, "Hypercapnia, Oxygen consumption, Tolerances (Physiology).

The choice of an acclimatization program for rats to deep anoxic-hypercapnic hypothermia is made difficult by the considerable individual variations in metabolism; the best results are obtained by three periods of (Biological Sciences--Physiology, TT, v. 10, no. 7) (over)

63-23057

- I. Korostovtseva, N. V.
- II. FASEB S-29-3
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

TT-63-23878

- Novikova, A. I.
AGE CHANGES IN THE MEMBRANE POTENTIAL OF
THE STRIPED MUSCLE FIBERS. [1963] [7p] 10refs
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DESCRIPTORS: *Aging (Physiology), *Muscles,
Musculoskeletal system, *Membranes (Biology),
Bioelectrons.

In the early postnatal period the MP value is low
(average 23.7 mV in newborn animals) and it reaches
the typical adult level at the age of 1 month. During
all subsequent periods of ontogenesis (3 months, 2
years), the MP remains unchanged. (Author)

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DESCRIPTORS: Bioelectronics, Cerebrum, *Cerebral cortex, Electric potential, Electroencephalography, Hearing.

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DESCRIPTORS: Nerves, *Autonomic nervous system,
*Insects, Wings, Muscles, Flight, Motion, Control
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DESCRIPTORS: *Electric potential, *Cerebral cortex,
*Sensory mechanisms, Motor reactions, Electro-
encephalography, Cats, *Growth (Physiology), Nerves

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DESCRIPTORS: *Hematology, Dogs, Hemoglobin,
Erythrocytes, Blood coagulation, Laboratory animals.

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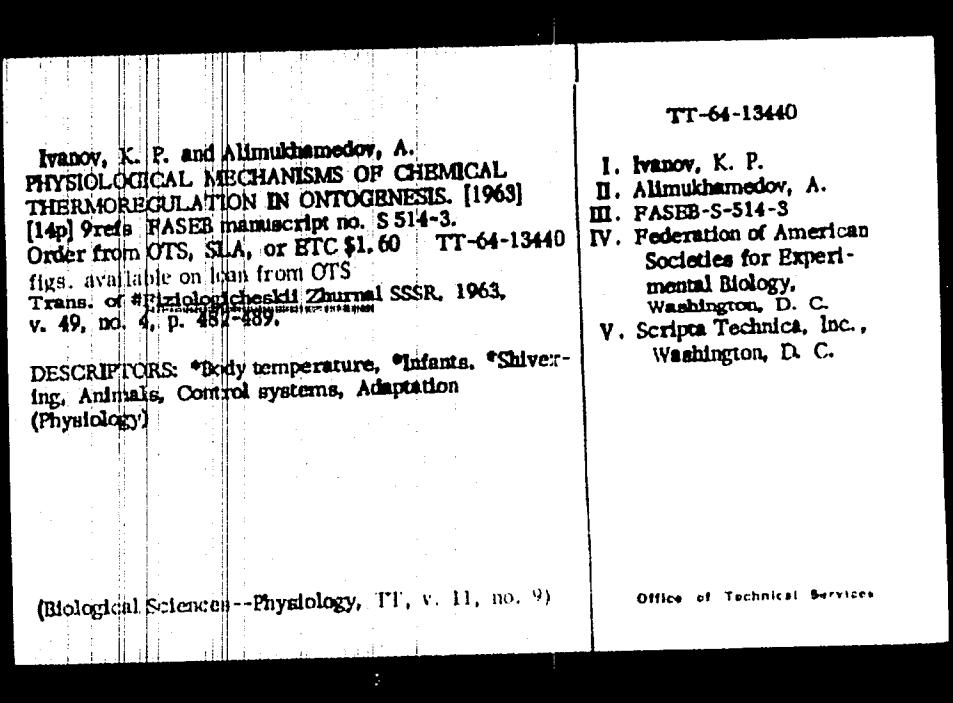
DESCRIPTORS: *Amphibians, *Bioelectronics, Vision,
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TT-64-12541-2 (p. T230-T234)

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DESCRIPTORS: Evolution, Nervous system, *Fishes, *End organs, *Cerebellum, Neuromuscular transmission, *Adaptation (physiology), Environment, Hydrostatic pressure

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